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APPLICATION FOR LOW VOLTAGE DIRECTIVE

On Behalf of

Acrel Co., Ltd.

ADL

Model: ADL400, ADL400-C, ADL400-F, ADL400-H

: Acrel Co., Ltd. **Prepared For**

No.253, Yulv Road, Jiading District, Shanghai, China

Anbotek (Guangzhou) Compliance Laboratory Prepared By

Limited

Room.508, Building 2, No.232, Kezhu Road, Science City, Guangzhou Economic & Technology Development Area,

Guangzhou, Guangdong, China.

(86)020-82575737 Tel:

Email: service.gz@anbotek.com

Date of Test: Jan. 02, 2020to Jan. 10, 2020

Jan. 10, 2020 **Date of Report:**

Report Number: SZAHS200102001-01

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Harren Theong

TEST REPORT EN 61010-1

Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements

Report reference No. SZAHS200102001-01

Compiled by: Elaiven Zhuang

Approved by: Terry Tian

Date of issue Jan. 10, 2020

Contents: 52 pages

Testing laboratory...... Anbotek (Guangzhou) Compliance Laboratory Limited

Address Room.508, Building 2, No.232, Kezhu Road, Science City,

Guangzhou Economic & Technology Development Area,

* Approved *

Compliance

Guangzhou, Guangdong, China.

Testing location: Same as above

Applicant: Acrel Co., Ltd.

Test specification

Standard.....: EN 61010-1:2010

Test procedure: LVD test report

Type of test object

Description: ADL

Trademark.....: Acrel

Model/type reference: ADL400, ADL400-C, ADL400-F, ADL400-H

Address No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu

Province, China

Factory.....: Same as manufacturer

Address: Same as manufacturer

Rating 220-230V, 50Hz/60Hz, 80A



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Test item particulars

Pollution degree....: III

Operating conditions Continuous operation

Connection to supply mains: None

Special protection to IEC 60529...... IP20

Possible test case verdicts

- test case does not apply to the test object...... N (N.A.)

- test object does meet the requirement P (Pass)

- test object does not meet the requirement F (Fail)

Testing

Date of receipt of test item Nov. 07, 2019

General remarks

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a dot is used as the decimal separator.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced except in full without the written approval of the testing laboratory.

According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

Copy of marking plate

ADL

Model No: ADL400

Rating: 220-230V, 50Hz/60Hz, 80A

CE

Jiangsu Acrel Electrical Manufacturing Co.,

Ltd.



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	Tago For of Tago Interest Tago Interest Tago				
AOK IN			EN 61010-1		
Clause	Requirement – Test	K Ama-	Anborek	Result - Remark	Verdict

4.4	TESTING IN SINGLE FAULT CONDITION	ak Anboter Anbo	Potek
4.4.1	Fault tests	otek Anbotek Anboro	Р
4.4.2	Application of fault conditions	notek anbotek Anbor	P
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Anbotek Anbotek An	N Andrew
4.4.2.2	Protective impedance	Anbores Anbo	N _x
4.4.2.3	Protective conductor	Anbotok Anbo	Notek
4.4.2.4	Equipment or parts for short-term or intermittent operation	otek Anbotek Anbot	N Anbol
4.4.2.5	Motors	nbote. Anb	N AN
4.4.2.6	Capacitors	Anbotek Anbo	N ^N erote ^N N
4.4.2.7	Mains transformers	Anbotok Anbot	P.
4.4.2.7.2	Short circuit	" upotek Pupot	Notek
4.4.2.7.3	Overload	tek abotek Anbore	N
4.4.2.8	Outputs	tek społek Aupole	P
4.4.2.9	Equipment for more than one supply	hbo Ant	P An
4.4.2.10	Cooling	Anbor An Motek	iboten N
4.4.2.11	Heating devices	Anbor Am Lotek	anbo'N
4.4.2.12	Insulation between circuits and parts	Anbores And	Potell
4.4.2.13	Interlocks	tek Anbores Anbo	N _{abote}
4.4.2.14	Voltage selectors	notek Anbotek Anbo	N N
4.4.3	Duration of tests	hotek Anbotek Anb	P
4.4.4	Conformity after application of fault conditions	Arra abotek	P.

5 Stell	Marking and documentation	Anbotek	AUD TO
5.1.1	General	ek Anbo tek abotek	Rupore
Vision	Required equipment markings are:	potek Anboy Ak not	ek Anbo
Nups.	Visible:	Anbotek Anbota An	notek P A
olek V	From the exterior; or	anbotek Anbote An	P
Anbotek	After removing a cover; or	abotek Anbote	Nek Nek
anbolek	Opening a door	ek hotek Anboten	ANN N
abotek	After removal from a rack or panel	ak hotek Anboten	N
k Anbo	Not put on parts which can be removed by an operator	oole Anbotek Anbot	N Anbo
olek M	Letter symbols (IEC 60027) used	Potek Vupoter Vu	Р



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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Woro	Ambotek Anbo. Anboten	Anbo sek anbotek	Aupole.
Anbo	Graphic symbols (IEC 61010-1: Table 1) used	k Anbor An botek	Potek
5.1.2	Identification	otek Aupore Aug	lodne -
Anbo	Equipment is identified by:	botek Anboten Anb	P P
ek pr	a) Manufacturer's or supplier's name or trademark	Lotek Anbotek Ant	P
notek	b) Model number, name or other means	And otek Anbotek	upo, b
wołek	Manufacturing location identified	And tek anbotek	Aup P
5.1.3	Mains supply	Anbo sek abolek	W.polo.
Anti	Equipment is marked as follows:	otek Aupo. W. W.	-Anbol
Anbo	a) Nature of supply:	inbotek Anboy All	orek An
-otek bu	1) a.c. rated mains frequency or range of frequencies	Anbotek Anbotek An	nbotekP
	2) d.c. mark with symbol 1 of Table 1	Mupo. W. Wotek	AnboP
Anb	b) Rated supply voltage(s) or range	, Aupo, ok Molek	AI Boter
Anba	c) Max. rated power (W or VA) or input current	stek Anbore And	P _{anbol}
ek Aupo	The marked value not less than 90 % of the maximum value	abotek Anbotek Anb	N M
-tok	If more than one voltage range:	Aupo, ok wolek	hpose. N
bo.	Separate values marked; or	Aupor Aur Potek	Anbo N
Vupo,	Values differ by less than 20%	Anboro Ann	No tel
Vupo,	d) Operator-set for different rated supply voltages:	tek Pupoles Pup	- nbois
Vupo,	Indicates the equipment set voltage	Motel Anboten Anbo	N N
ok An	Portable equipment indication is visible from the exterior	Anbotek Anbotek Anb	botek N
0 k	Changing the setting changes the indication	Anboro Ano	Nodn
Anborek	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	Anbotek Anbotek	An bo tek
Anbot	With the voltage if it is different from the mains supply voltage	botek Ambotek Amboten	N ^{nbo}
N. W.	For use only with specific equipment	botek Anbote And	N N
olek	If not marked for specific equipment it is marked with:	Aupotek Aupotek Ar	anbotek
Vupo,	The maximum rated current or power; or	Anboros Anbo	N
Vupoje	Symbol 14 with full details in the documentation	ek Anbolek Anbo	Nootel
5.1.4	Fuses	otek Anbotek Anbote	. P
K Ant	Operator replaceable fuse marking (see also 5.4.5)	Anbotek Anbotek Anbot	N N
5.1.5	Terminals, connections and operating devices	Vupolek Vupo, VI	o₹ [©] P



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Clause	Requirement – Test	Result - Remark	Verdict
Clause	Requirement – rest	Result - Remark	verdict
5.1.5.1	General	ek anbotek Anbote	Potek
Anborok	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	otek Anbotek Anbotek	P
ek bi	Insufficient space, symbol 14 used	potek Aupole, Vu	N
botek	Push-buttons and actuators of emergency stop devices and indicators:	Ambotek Ambotek	Anbotek Anbotek
Anbo.	used only to indicate a warning of danger or	Anbore Ans	Notek
Anbor	the need for urgent action	ootek Anbore. Anz	N N nbo
Anbo	coloured red	botek Anbotes Anb	N N
ek ar	coded as specified in IEC 60073	work Auporen Aut	N
botek	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	Ambotek Anbotek	Anbotek
Anbor	to safety of persons; or	Anbore. And	Notek
Anboro	safety of the environment	otek Anboten Anbo	N N
Anbo	Indication of emergency stop devices	Lotek Anbotek Anbot	N
5.1.5.2	Terminals	anbotek Anb	- An
otek	Mains supply terminals identified	And tek anbotek	N N
-otek	Other terminal marking:	August and the August A	Aupole
Vun Viek	a) Functional earth terminals (symbol 5 used)	Anbo Lok botek	AT No real
Villa	b) Protective conductor terminals:	clek Anbo. ek bote	F _{Anbot}
VUDO	Symbol 6 is placed close to or on the terminal;	upotek Aupor k	Nek P An
DIL DIL	Part of appliance inlet	anbotek Anbote Ant	N Vester
otek	c) Terminals of control circuits(symbol 7 used)	abotek Anbote	N
Anbotek	d) Hazardous live terminals supplied from the interior	Anbotek Anbotek	Anbotek Anbotek
Anbo	Standard mains socket outlet; or	lek Auport Aur	N _{nbot}
Wupo.	Ratings marked; or	potek Aupote Aus	N N
k Ani	Symbol 14 used	abotek Anbote And	N N
5.1.6	Switches and circuit-breakers	hotek Anboten A	N
nbotek	If disconnecting device, off- position marked	Anbotek Anbotek	Anbo N
"potek	If push-button used as power supply switch:	K wotek Anbotek	N ^m A
profe mote	Symbol 9 and 15 used for on-position	y And dek anbotek	Nipor
Pro-	Symbol 10 and 16 used for off-position	upote. And	tak N MA
Ville	Pair of symbols 9, 15 and 10, 16 close together	abotek Anbo	N Yelo



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Clause	Requirement – Test	Result - Remark	Verdict
10°	hotek Anbotek Andt tek nbotek	Aupotes, Aug	Marodna
5.1.7	Equipment protected by double insulation or reinforced insulation	ek Anbotek Anbotek	Notel
, ho	Protected throughout (symbol 11 used)	core Ambotek Ambote	Nanbe
N. Pro-	Only partially protected (symbol 11 not used)	rupoles Pup Jek out	otek N p
5.1.8	Field-wiring terminal boxes	No such parts	obotek_
DOLO	If terminal or enclosure exceeds 60°C:	Anborek Anbo	N ^M
Anbore	Cable temperature rating marked	k Aupotok Aupo	Notek
Anbotek	Marking visible before and during connection or beside terminal	otek Anbotek Anbote	N
5.2	Warning markings	Anbotel Anb	olek - M
b.c	Visible when ready for normal use	Anbotek Anboy An	-boto ^k P
ooter	Are near or on applicable parts	Aupotek Aupore	P.⁴
Anbotek	Symbols and text correct dimensions and colour:	I upotek Anbo	Potek
Anbovek	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background	itek Anbotek Anbotel	P
and And	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and	nbotek Anbotek Anb	lek P M
otek	0.5 mm depth or raised if not contrasting in colour	Anbotek Anbotek	P nbotak
Aupole	If necessary marked with symbol 14	Anborek Anbo	Potek
Anbore.	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted	tek Anbotek Anbotek	P
5.3	Durability of markings	notek Anbotek Anbe	P P
otek	The required markings remain clear and legible in normal use	(see appended table)	Ambotek Ambotek
5.4	Documentation	Ambores And	Anbutek.
5.4.1	General	ek Anboten Anbo	Pool
Anbor	Equipment is accompanied by documentation for safety purposes for operator or responsible body	botek Anbotek Anbo	ek P
olek bu	Safety documentation for service personnel authorized by the manufacturer	Anbotek Anbotek Ar	ootek N
nbotek	Documentation necessary for safe operation is provided in printed media or	Anbotek Anbotes	Anbotek
Aupo.	in electronic media if available at any time	lek Aupoles Aupoles	Parbot
Anbore	Documentation includes:	potek Anbotes Anbo	18 - No.
day	a) Intended use	ok bolek Aubo	Р



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Clause	Requirement – Test	Result - Remark	Verdict
po,	hotek Antotek And	Vupote, Vun	Anbotak
Anboro	c) Name and address of manufacturer or supplier	ek Anboren Anb	Potek
Anbore	d) Information specified in 5.4.2 to 5.4.6	Lotek Anbotek Anbo	P 700
ak Anbo	e) Information about how to mitigate risks remaining	Anbotek Anbotek Anbo	otek P
otek A	f) accessories for safe operation of the equipment specified	Anbotek Anbotek	inbotel P
Anbotek Anbotek	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a hazard from harmful or corrosive substances of hazardous live parts	otek Anbotek Anbotek	Anbolak Anbolak
Vupo,	h) Instructions for lifting and carrying (see 7.5)	inpotek Aupon Au	stek N An
otek an	Warning statements and a clear explanation of warning symbols:	Anbotek Anbotek	nbotekP
Nek	Provided in the documentation; or	Anbo ek abolek	AnboN .
Aup	Information is marked on the equipment	Aupo, W. Wolek	No.
5.4.2	Equipment ratings	stek Aupor Aurote	-Anbot
Vupo.	Documentation includes:	abolek Anbole Ans	lek - vo
Nr. VI	a) Supply voltage or voltage range	220-230V	_{rek} P
otek	Frequency or frequency range	hotek Anboten A	N
abotek	Power or current rating	80A	Anbo P .ok
Anbotek	b) Description of all input and output connections in accordance to 6.6.1 a)	chek Anbotek Anbotek	ArP Ambot
K Anboy	c) Rating of insulation of external circuits as required by 6.6.1b)	Anbotek Anbotek Anb	ek N Ani
	d) Statement of the range of environmental conditions	Ambient temperature: 5°C~40°C	botek P
inbolok	e) Degree of ingress protection (IP, IEC 60529)	IPX0	Prek
Anbolek	f) Impact rating less than 5 J	ek nbotek Anbotek	P
anbolt	IK code in accordance to IEC 62262 marked or	sek stotek Anboien	N
100	symbol 14 of table 1 marked, with	Woods Williams	P
16K	RATED energy level and test method stated	Anbore An motek Ar	ootes N
5.4.3	Equipment installation	Anboto, K Ant	anbotek
upo, - ok	Documentation includes instructions for:	V Vupore. Vupo	Antorek
Vupos	a) Assembly, location and mounting requirements	Piek Vupolog Vupo,	Pripote
Anbore	b) Protective earthing	botek Anbotek Anbo	N
Anb	c) Connections to supply	hotek Anbotek Anbo	P P
10k	d) Permanently connected equipment:	And sek shotek Ar	100, -



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Clause	Requirement – Test	Result - Remark	Verdict
-W	hotek Arbotek Arbo A. botek	Anboren Anb	anbotek
Anboro	Supply wiring requirements	ek Anboten Anbo	Note
Anbore	If external switch or circuit-breaker, requirements and location recommendation	otek Anboten Anbote	N
r br.	e) ventilation requirements	Anbore And	otek N 1
n bu	f) special services (e. g. air, cooling liquid)	Anbores Anti-	N ^{Verode}
Ole.	g) Instructions relating to sound level	Anborek Anbo	N
5.4.4	Equipment operation	ok Anbotek Anbote	ole
Anbotek	Instructions for use include:	tek abotek Anbote	Pigg.
Anbot	a) identification and description of operating controls	(see user manual)	PRINT
	b) Positioning for disconnection	abotek Anbote And	N _N ere
otek	c) Instructions for interconnection	potek Anbotes	Pk
abotek	d) Specification of intermittent operation limits	(see user manual)	Amba P .al
holek	e) Explanations of symbols used	Ann otek Anbotek	MP
Par.	f) Replacement of consumable materials	oten Augustak	Nanb
Purc	g) Cleaning and decontamination	Pupoley, Vupo, Vek Vpc	OK N
otek An	h) Listing of anypoisonous or injurious gases and quantities	Anbotek Anbotek A	ipotek N
nbotek	i) RISK reduction procedures relating to flammable liquids (see 9.5)	Anbotek Anbotek	Anbo N
Anbor	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	tek Anbotek Anbotek	N
an'	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Anbotek Anbotek Anbo	N N
nbotek	A statement about protection impairment if used in a manner not specified by the manufacturer	Anbotek Anbotek	Anbo'N
.4.5	Equipment maintenance and service	sek Anboten Anbo	- 100
Aupore	Instructions for responsible body include:	work Anbotek Anbo	- 4 ₀
lek Vup	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Anbotek Anbotek Anbo	potek P
botek	Instruction against the use of detachable MAINS supply cord with inadequate rating	Anbotek Anbotek	Ambotek
Anbote	Specific battery type of user replaceable batteries	lek Aupster Aupotek	Ribo
	Any manufacturer specified parts	100 40	P N



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10k M	EN 61010-1	Anboro Andrek An	potek Ar
Clause	Requirement – Test	Result - Remark	Verdict
100	potek Anbotes And tek nbotek	Aupon	Anbores
Anbore	Instructions include following subjects permitting safe servicing and continued safety:	k Anbotes Anb	Panbotek
	a) product specificRISKSmay affect service personnel	otek Anbotek Anbot	PARDO!
iek an	b) protective measures for theseRISKS	and anbotek Ani	P
-otek	c) verification of the safe state after repair	Ann tek abotek	mbore P
5.4.6	Integration into systems or effects resulting from special conditions	Anbotek Anbotek	Anb N
Aupoley	Aspects described in documentation	tek abotek Anbote	N

6	Protection against electric shock	Anbrek Anbrek	- An
6.1	General	Anbo Lak botek A	upolo-
6.1.1	Requirements	Aupore Mun	Anbotek
Anbotek	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	Anbote Anbote
Wille	ACCESSIBLE parts not HAZARDOUS LIVE	upolek Aupo. W.	lek P Anb
potek V	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	Anbotek Anbotek An	ibotek P
Anbole	ACCESSIBLE parts and earth	Anbotek Anbo	Nyek
Anboles	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	lek Anbotek Anbotek	PAnbotel
lek bi	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	anbotek Anbotek Anbo	ek P Vup
6.1.2	Exceptions	Potek Anbore. Ar	107
Anbotek	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Ambotek Ambotek	Anbotek Anbotek
Anbo	a) parts of lamps and lamp sockets after lamp removal	ek Anbotek Ambotek	N _{Abote}
e _K bu	b) parts to be replaced by operator only by the use of tool and warning marking	Vapotek Vupotek Vupo,	N And
bosek bosek	Those parts not hazardous live 10 s after interruption of supply	Anbotek Anbotek	Anbot N
Anbolek	Capacitance test if charge is received from internal capacitor	ak Ambotek Ambotek	Ari Niest
6.2	Determination of accessible parts	tek upotek Aupoter	Pure.
6.2.1	General	tek abotek Anbot	_ Vup.
olek	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4	Anbotek Anbotek An	ojek b k



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Clause	Requirement – Test	Result - Remark	Verdict
No.	potek Aupoten Aug tek apotek	Antore And	Anborek
6.2.2	Examination	k Aupoter Aug	Pote
Anboro	- with jointed test finger (as specified B.2)	otek Anbotek Anbo	P
Anbor	- with rigid test finger (as specified B.1) anda force of 10 N	Anbotek Anbotek Anbo.	otok P
6.2.3	Openings above parts that are hazardous live	No openings	nbote ^k N
obotek	- test pin with length of 100 mm and 4 mm in diameter applied	Anboten Anbotek	AmboN ^{IK}
6.2.4	Openings for pre-set controls	Ann Otek anbotek	N
Anbote	- test pin with length of 100 mm and 3mm in diameter applied	botek Anbotek Anbotel	Nanb
6.3	Limit values for accessible parts	notek Anbotek Anb	- No.
6.3.1	Levels in normal condition	Anti-	upo. P
Anbotek K	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	Р
Anbore	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	tek Anbotek Anbotek	N
A No.	Voltages are not HAZARDOUS LIVE the levels of:	upole Aug stek supe	10/4 b
otek Am	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	Anbotek Anbotek Anbotek	ibote ^k N Anbote ^k
anbotek	for wet locations measuring circuit A.4 used	ek botek Anbotes	N
hote	c) Levels of capacitive charge or energy less:	tok botek Anbotes	N
Anb	1) 45 µC for voltages up to 15 kV peak or d.c. or line A of Figure 3	abotek Anbotek Anbo	N M
otek I	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Anbotek Anbotek	Anborn
6.3.2	Levels in single fault condition	Vupos Ver Posek	An Preh
Anbotel	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	Panbo
, pulpe	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	anbotek Anbotek Anbo	N N
Jee b	Voltages are notHAZARDOUS LIVEthe levels of:	anbotek Anbote Ar	wold!
Anbotek Anbotek	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	ek Anbotek Anbotek	Anborek Anborek
bran	for wet locations measuring circuit A.4 used	poles Aupo Pek Pol	N M
buse	c) Levels of capacitive charge or energy less:	anbotek Anbot An	orek N



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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
to _K	notek Anbo, All tek Thotel	Aubo at a solek	Mpole
Anbo, abotek	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	k Anborek Anborek	Notek
	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	olotek Anbotek Anbote	Nanbo
6.4	Primary means of protection	botek Anboter Ant	, P
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Anbotek Anbotek	P
Anbotek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	otek Anbotek Anbote	AP Ambol
VUPO	b) BASIC INSULATION(see 6.4.3)	upotek Aupor An	iek P an
er and	c) Impedance (see 6.4.4)	Pupolek Pupole Pup	-oteVN
6.4.2	Enclosures and protective barriers	abotek Anbotes	Pk
* abotek	- meet rigidity requirements of 8.1	hotek Anboten	And N tek
Anborek	- meet requirements for BASICINSULATION, if protection is provided by insulation	nek Anbotek Anbotek	AN anbott
ek Anbo	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access	Anbotek Anbotek Anb	lek N Ant
6.4.3	Basic insulation	Anti-	Anbole
Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	tek Anbotek Anbotek	MP ^{oll}
6.4.4	Impedance	otek anbotek Anbo.	N
Anbro	Impedance used as primary means of protection meets all of following requirements:	Aupotek Aupotek Vupe	botek N
ole, b	a) limits current or voltage to level of 6.3.2	Pupotoy Vupo, rak	N'ookN'
Anbotek	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate	Ambotek Ambotek	Nek
Anbotek Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	botek Anbotek Anbotek	N ₁ p ₀₁
6.5	Additional means of protection in case of single fault condition	Anbotek Anbotek Ar	potek I
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:	ek Anbotek Anbotek	Anbotek Anbotek
anbotek	a) PROTECTIVEBONDING(see 6.5.2)	sek abotek Anbotes	P
k	b) SUPPLEMENTARYINSULATION (see 6.5.3)	bor ker wotek Aupor	P And
olek W	c) automatic disconnection of the supply (see 6.5.5)	Anbote Anbotek An	oolek N



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Clause	Requirement – Test	Result - Remark	Verdict
po's	hotek Anbotek Anbo	Anbore And Arek	anborek
Anbois	d) current-or voltage-limiting device (see 6.5.6)	k Anbotes Anbo	Notek
Anbore	Alternatively one of the single means of protection is used:	otek Anboten Anbote	N
er h	e) REINFORCED INSULATION(see 6.5.3)	inbote And	otek N Ar
o. Am	f) PROTECTIVE IMPEDANCE (see 6.5.4)	Anbores Anb	N ^{lotol} o
6.5.2	Protective bonding	Aupotak Aupo	.hotak
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:	Anbotek Anbotek	Anbotek
ek Anboy	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	inbotek Anbotek Anb	Yek - Pu
botek k.	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek	nbotel N
6.5.2.2	Integrity of protective bonding	hotek Anbote	Anb tek
Anborek	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	hek Anbotek Anbotek	N Anbol
Ano	b) Soldered connections:	Anbotok Anbot Ak	worek
polek	Independently secured against loosening	abotek Anbot A	N
anbotek	Not used for other purposes	abotek Anboten	Nek
anbotek	c) Screw connections are secured	ek potek Aupolea	N
hoto	d) Protective bonding not interrupted	ok hotek Anbotes	N.mbb
ak Aup	exempted as removable partcarries MAINS SUPPLY INPUT connection	ipotek Aupotek Aupo	N AN
Anbotek I	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Anbotek Anbotek	Anbot N.
Anbotek	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	ek Anbotek Anbotek	N
bu.	g) If mains supply passes through:	botek Anbe tek bo	ek - Aup
Anto	Means provided for passing protective conductor	anbotek Anbor An	notell N
olek b	Impedance meets 6.5.2.4	Anbotek Anbote Ar	word*
Anbotek - otek	h) Protective conductors bare or insulated, if insulated, green-and-yellow	Anbotek Anbotek	Nek
View View	Exceptions:	lek Yupo, by Projek	Aupole
Anto	1) earthing braids	potek Pupore Wun	dna N Na
Aupo	2) internal protective conductors etc.	abotek Anboten Anbo	otel N
Note A	Green/yellow not used for other purposes	tek vupoten bu	N



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Clause	Requirement – Test	Result - Remark	Verdict
p0 ¹⁰	notek Anbotak Anbot An	Andoter Ando	anbotek
Anboro	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	ek Anbotek Anbotek	Notek
6.5.2.3	Protective conductor terminal	Potos Augusta	er - Vupo
Tr. Press	a) Contact surfaces are metal	Anbores Ans stek on	potek P A
, bu	b) Appliance inlet used	Anbotes Anb	nbotel P
Anbotek	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	Anbotek Anbotek	AnboP.k
Aupois	d) If no mains supply is required, any protective conductor terminal:	otek Anboles Anbol	el Anboi
art ant	Is near terminals of circuit for which protective earthing is necessary	Anbotek Anbotek An	ookek N M
otek	External if other terminals external	abotek Anbote	N
Aupotek	e) Equivalent current-carrying capacity to mains supply terminals	Anbotek Anbotek	Anbotek Anbotek
Vupo	f) If plug-in, makes first and breaks last	Mak Aupotes Aug	N _{nb} o ^t
k Anbon	g) If also used for other bonding purposes, protective conductor:	Anbotek Anbotek An	otek An
Yes	Applied first	Anbor All Hotek	Mipoles N
101	Secured independently	Pupote N. Potek	Anbo'N
Tupo,	Unlikely to be removed by servicing	Aupore Ann	N tak
Vupo,	h) Protective conductor of measuring circuit:	ciek Anbores And	N N N
Anbore	Current RATING equivalent to measuring circuit TERMINAL;	Anbotek Anbotek Anb	olek N Ani
- of-	2) PROTECTIVE BONDING:	Aupolan Aupo	N Valories
.V.	Not interrupted; or	Anboros Anbo	nbo'N'
inbotak.	i) Functional earth terminals allow independent connection	Anbotok Anbotok	Andrek
Anbotel	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	botek Anbotek Anbote	Pupos
Anb	Suitable size for bond wire	hotek Anbotek And	, P
isek b	Not smaller than 4,0mm (No. 6)	Anbotek Anbotek	P
botek	At least 3 turns of screw engaged	Ann otek Anbotek	Anbore P
notek	Passes tightening torque test	Andrew anbotek	Mulbarra.
Anbotel	k) Contactpressure not capable being reduced by deformation of materials	Potek Pupotek Wipotel	N
6.5.2.4	Impedance of protective bonding of plug- connected equipment	abotek Anbotek Anb	N N



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Clause	Requirement – Test	Result - Remark	Verdict
, O,	notek Anboten Anb	Anbore And otok	Anborek
Anborek Anborek	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	otek Anbotek Anbotek Anbote	ofe ¹ Anbore
jk od	less than 0,1 Ohm; or	huppe hek upotek	Anboto N
otek	less than 0,2 Ohm if equipment is provided with non detachable cord	Anbotek Anbotek	Inbote N
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	Anbotek Anbote	N Anbotel
6.5.2.6	Transformer protective bonding screen	otek Pupor Mr.	otel Nanbi
yk Aupa.	Transformer provided with screen for protective bonding:	Inbotek Anbotek	Anbotek N
anbotek Anbotek	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see6.5.2.2 a)	Anbotek Anbotek	Anbotes
Anbor	screen bonding with soldered connection (see 6.5.2.2 b) is:	tek Anbotek Anb	otek N Anbo
/r	- Independently secured against loosening	Anbore Am	inpolek N A
rok W.	- Not used for other purposes	Anbore Ans work	Albotek N
6.5.3	Supplementary insulation and reinforced insulation	Anbotek Anbotek	Anbo Pk
Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	tek Anbotek Anbote	,tek Anbo
6.5.4	Protective impedance	shotek Anbote And	N N
otek Anb	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	Anbotek Anbotek	Arbotek N
Anbotek Anbotek	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	ek Anbotek Anbotek	Amb N Ambotek
Anbore	The protective impedance consists of one or more of the following:	botek Anbotek Anbo	N N
Jok Ma	a) appropriate single component suitable for safety and reliability for protection, it is:	Anbotek Anbotek	Arbotek N
nbotek	RATED twice the maximum WORKING VOLTAGE	Anbotek Anbotek	Anbotok
Anbore	resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	lek Aupoten Aupo	rek N _{Anbot}
Pro-	b) combination of components	pores And	ibotalk N An
ek bu	Single electronic device not used asPROTECTIVE IMPEDANCE	Anbotes Anbus	Anborek N



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Clause	Requirement – Test	Result - Remark	Verdict
10°	hotek Anbotek Anbotek	Pubote, Yun	Anbotek
6.5.5	Automatic disconnection of the supply	k Anbotes Anbo	Notek
Anbore	a) RATED to disconnect the load within time specified in Figure 2	otek Anbotek Anbote	N
ak An	b) RATED for the maximum load conditions of the equipment	Inpotek Aupotek Aup	Hek N M
6.5.6	Current- or voltage-limiting device	Anbotek Anbotek	N
botek	Device complies with all of:	Antotek Antotek	Anto N
Anbotek	a) RATED to limit the current or voltage to the level of 6.3.2	otek Anbotek Anbotek	N
Anboy	b) RATED for the maximum working voltage; and	wotek Anbotek Anbo	N N
ok pu	RATED for the maximum operational current if applicable	Anbotek Anbotek Anb	nbotekN
Anbotek Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
6.6 _{KND}	Connections to external circuits	tek abotek Anbois	Р
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:	Anbotek Anbotek Anbotek	botek hotek
Anboro	- the external circuits	Anboten Anb	Potek
Anbore	- the equipment	tek Anbotek Anbo	P
Anbore	Protection achieved by separation of circuits; or	ntek Anbotek Anbo.	P
K Ant	short circuit of separation does not cause a HAZARD	Anbotek Anbo	potek P A
ole.	Instructions or markings for each terminal include:	Anbotal Anbo	- abotP
upoles	a) Rated conditions for terminal	Anbotek Anbo	Potek
Vupoter.	b) Required rating of external circuit insulation	ek nbotek Anbotek	N
6.6.2	Terminals for external circuits	rek abotek Anbote	Ano.
anb Anb	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	Anbotek Anbotek Anbo	Dotek N M
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	Anbotek
Anbore	These circuits are:	lek Pupoley Pupo.	100%
Anbore	Not connected to accessible conductive parts; or	otek Anbotek Anbotek	N
Anb'	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	Anbotek Anbotek Anbot	otek N Am



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Clause	Requirement – Test	Result - Remark	Verdict
10°,	hotek Anboten And	Vupase Vun	Aupolek
	No accessible conductive parts are hazardous live	k Anboten Anbo	Notek
6.6.4	Accessible terminals for stranded conductors	otek Anbotek Anbo	~/00
Anbol	No RISK of accidental contact because:	otek Anbotek Anbo	N
ak an	Located or shielded	And Anbotek Anb	N
otek	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	Anbotek Anbotek	inbot N
Anbotek	ACCESSIBLE TERMINALS will not work loose	k Aupotek Aupon	Notek
6.7 _{Anbolak}	Insulation requirements	tek anbotek Anbote	Page 1
6.7.1	The nature of insulation	rek obotek Anbote	- Pup
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD	Anbotek Anbotek Anbotek	nbotek Anbotek
6.7.1.2	Clearances	ok botek Anbotes	PΡ
Anbot	Required CLEARANCES reflecting factors of 6.7.1.1	abotek Anbotek Anbote	Puppe Brupe
otek An	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied	Anbotek Anbotek Anbotek A	botek P
6.7.1.3	Creepage distances	abotek Anbot	Prek
Anbotek	Required CLEARANCES reflecting factors of 6.7.1.1	tek Anbotek Anbotek	Anbot Anbot
Ano	CTI material group reflected by requirements	upotek Aupo. ok ho	ek P
Ani	CTI test performed	upotek Anbor K	otek P
6.7.1.4	Solid insulation	abotek Anbores A	N
inpotek	Required CLEARANCES reflectingfactors of 6.7.1.1	Anbotek Anbotek	Anbotek Anbotek
6.7.1.5	Requirements for insulation according to type of circuit	ek Anborek Anborek	Anbot
and And	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	Anbotek Anbotek Anbo	ootek N Am
nbotek	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	Ambotek Anbotek	Anbotek
Anbore	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V	ek Anbotek Anbotek	N _{Anborr}
Anb	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	botek Anbotek Anbot	ok P Ani
You	e) In K.3 for circuits that have one or more of:	Ar Hotel Ar	N



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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
John Self	hotek Anbo, An tek shotek	Anto	Mode
Anbolek	maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT	otek Anbotek Anbotek	Notel Anbotel
anbo.	maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT	Anbotek Anbotek Ani	N N
botek	WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage	Anbotek Anbotek	Inbote N
Anbotek	WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform	otek Anbotek Anbotek	Anbotek Anbotek
Anbor	5) WORKING VOLTAGE with a frequency above 30 kHz	Anbotek Anbotek Anbot	stek Name
6.7.2	Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V	Anbotek Anbotek	Anbote ^k N
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	Ans otek Anbotek	Anbor P
bu.	Values for MAINS CIRCUITS of table 4 are met	Ann tek shotek	MP
Anbote	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	otek Anbotek Anbote	PAnbo
6.7.2.2	Solid insulation	arek sabotek Anb	N
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Anbotek Anbotek	Anbotek Anbotek
Anbotek	Equipment passed voltage tests of 6.8.3 with values of Table 5	otek Anbotek Anboten	A'N Anbot
Anbor	Complies as applicable:	hotek Anbotes Anb	N N
ek Anb	a) ENCLOSUREor PROTECTIVE BARRIER Clause8	Anbotek Anbotes Anb	Mootek N
vupote _k	b) moulded and potted parts requirements of 6.7.2.2.2	Aupotek Aupotek	Anbo'N'
Anbotek	c) inner layers of printed wiring boards requirements of 6.7.2.2.3	sek Anbotek Anbotek	Anno Anbot
Vupo	d) thin-film insulation requirements of 6.7.2.2.4	botok Anbore An	Ing N 48 to
6.7.2.2.2	Moulded and potted parts	botek Anbores Anto	N N
Anbotek I	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	Anbotek Anbotek A	Anbotek Anbotek
6.7.2.2.3	Inner insulation layers of printed wiring boards	ak shotek Anbores	N N
Anbotel	Separated by at least 0,4 mm between same two layers	potek Anbotek Anbotek	N Ant
otek Anb	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek An	botek N
	a) thickness at least 0,4 mm	Vuppe.	Aupoles N



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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Aor.	hotek Anbo At tek abotek	Vuppe, Protok	Mpoles
Anbotek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	otek Anbotek Anbotek	Notek Ambot
ek Anbo.	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION	Anbotek Anbotek Ant	atek N An
6.7.2.2.4	Thin-film insulation	Anto atek Anbotek	Anb ON
Anbotek Anbotek	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	stek Anbotek Anbotek	Anboli
ek An	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	inposek Ambosek Anb	otek N An
bolek	a) thickness at least 0,4 mm	hotek Anbotek	N
Anbotek Anbotek	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	Anbotek Anbotek	Anbotek Anbotek
ek Antote	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION	nbotek Anbotek Anbote	Namb rek Ant
6.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	Anbotek Anbotek	Anbotek
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	rek Anborek Anborek	Nanbore
este in	- REINFORCED INSULATION	shore And otek Andre	lek N Vup
bu.	- DOUBLE INSULATION	Anbore And	botek N
potek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek	Anbo'N'
6.7.3.2	CLEARANCES	k notek anbotek	AUD.
Anbotel	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	botek Anbotek Anbotek	Pnbo.
otek b	twice the values of Table 6 for REINFORCED INSULATION	Anbotek Anbotek Ar	potek P
Anbotek -tek	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	Amborek Amborek	Anbotek Anbotek
Anbotel Anbotel	values forREINFORCED INSULATION are 1,6 times the values for BASIC INSULATION	ek Anbotek Anbotek	Pabole
kek Anbi	if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	Anbotek Anbotek Anbo	Potek P



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Clause	Requirement – Test	Result - Remark	Verdict
, Od	hotek Anbotek Anbo	Auguste Aug	Anbolek
	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	otek Anbotek Anbotek	N _{otek}
6.7.3.3	CREEPAGE DISTANCES	abotek Anbore Ans	tel P
otek Anb	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	Anbotek Anbotek Anb	nbotek Notek
Anbotek	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	Anbotek Anbotek	Anbotek Anbotek
Anbote	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	stek Aupotek William	N _{Anbo}
6.7.3.4	Solid insulation	ind stek Anbotek Anbr	N
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Anbotek Anbotek	nbote N Anbotek
Ambotek	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	tek Anbotek Anbotek	AN
k Aup	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	nbotek Anbotek Anbo	lok N V
Anbotek Anbotek	b) if WORKING VOLTAGE exceeds300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION	Anbotek Anbotek Anbotek	Anborek Anborek
Anbore	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	botek Anbotek Anbo	ek N
r Vunn	Complies as applicable:	Anbores Anb	potek N
b.	1) ENCLOSURE or protective barrier Clause 8	Antorek Antor Al	N N
inbore botek	2) moulded and potted parts requirements of 6.7.3.4.2	Ambotek Ambotek	Andrek
Anbotek	inner layers of printed wiring boards requirements of 6.7.3.4.3	botek Anbotek Anbotek	N ¹ bo
, Aupo	4) thin-film insulation requirements of 6.7.3.4.4	hotek Anbotek Anbo	N
6.7.3.4.2	Moulded and potted parts	Andotek Anbotek An	Z
nbotek	Conductors between same two layers are separated by applicable distancesof Table 8	Ambotek Ambotek	Anborn N
6.7.3.4.3	Inner insulation layers of printed wiring boards	ek Aupoten Aupo	Noote
Anbore	Separated by at least by applicable distances of Table 8 between same two layers	potek Anboten Anbot	Ant N
lek Wun	REINFORCED INSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek An	otek N
	"(a), "Upp. N. N. 1948.	100	0.010



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Clause	Requirement – Test	Result - Remark	Verdict
Clause	Requirement – Test	Result - Remark	verdict
Anbotok	a) thickness at least applicable distance of Table 8	k anbotek Anbote	Notel
Anborek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	otek Anbotek Anbotek	N Anbr
otek An	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	Anbotek Anbotek Ant	nbotel N
6.7.3.4.4	Thin-film insulation	r upotek Vupoter	N New
Anbotek	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	otek Anbotek Anbote	Anbo
k ant	REINFORCED INSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek Anb	N A
1010	a) thickness at least applicable distance of Table 8	Anbotak Anbo	N ^K
Anborek	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	tek Anbotek Anbotek	N nborek
k Anto	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests with 1,6 time values of Table 6:	abotek Anbotek Anbotek Anb	lek N
Nok	a.c. test of 6.8.3.1; or	Anbo. M. Abotek	Anboth
Anbotek	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	lek anbotek Anbotek	W.Vo.
6.8	Procedure for voltage tests	tek abotek Anbote	Anv
6.9	Constructional requirements for protection against electric shock	Anbotek Anbotek Anbr	P M
5.9.1	If a failure could cause a HAZARD:	anbotok Anboto A	hole ^{tt}
nbotek	a) Security of wiring connections	upotek Anbore	Prek
anbotek	b) Screws securing removable covers	ek abotek Anbote	A ^m P
Amborel	c) Accidental loosening	tek abotek Anboten	Pnbs
Anb	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	pot Anbotek Anbo	P M
5.9.2	Material not to be used for safety relevant insulation:	Anbotek Anbote A	AnboteN
upo,	Easily damaged materials not used	Aupores Aug	Ant Ntek
Aupor	Non-impregnated hydroscopic materials not used	Sk Wipolog William	Nabot
6.9.3	Colour coding	potek Anboten Anbo	N N
Anbe	Green-and-yellow insulation shall not be used except:	Anbotek Anbotek Anbo	potek -
10,	a) protective earth conductors;	"potak Virpo, Vi	aboleN



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Clause	Requirement – Test	Result - Remark	Verdict
No.	potek Aupotes Aug	Aupol Min atok	Aupotok
Anbor	b) protective bonding conductors;	ek Anboier And	Note
Anboro	c) potential equilization conductors;	hotek Anboten Anbo	N
Anbore	d) functional earth conductors	hotek Anbotek Anbo.	N
6.10	Connection to mains supply source and connections between parts of equipment	Ambotek Ambotek Amb	upotek
6.10.1	Mains supply cords	Anboten Anbo	Notodo.
Vupoje.	Rated for maximum equipment current	ek Anbolek Anbo.	Potel
Anborek	Cable complies with IEC 60227 or IEC 60245	tek abotek Anbotek	Р
Anbore	Heat-resistant if likely to contact hot parts	hak abotek Anbote	N
JK "no	Temperature rating (cord and inlet)	Nupor All Polek Aup	N
otek p.	Green-and-yellow used only for connection to protective conductor terminals	Anbotek Anbotek	nbotek P
Anbotek	Detachable cords with IEC 60320 mains connectors:	Anbotek Anbotek	Anbotek
Anb	Conform to IEC 60799; or	potek Anbor An hotel	Ninbo
Vupo,	Have the current rating of the mains connector	abotek Anbote k Anb	ω ^k N ω
6.10.2	Fitting of non-detachable mains supply cords	abotek Anbotes And	Nek
6.10.2.1	Cord entry	abotek Anboiek A	telt.
obotek	Inlet or bushing smoothly rounded; or	w hotek Anborek	N.ek
abotek	Insulated cord guard protruding >5D	An hotek Anbotek	N
6.10.2.2	Cord anchorage:	anbotek anbotek	Anbo
Anb'	Protective earth conductor is the last to take the strain	Anbotek Anbotek Anbo	N M
otek p	a) Cord is not clamped by direct pressure from a screw	Anbotek Anbores A	N.
No.	b) Knots are not used	Anboros Ano	N. N. Selv
Anborek	c) Cannot push the cord into the equipment to cause a hazard	ek Anborek Anborek	Nabol
anbo	d) No failure of cord insulation in anchorage with metal parts	anbotek Anbotek Anbo	N
YOK D	e) Not to be loosened without a tool	abotek Anboten Ar	N
upotek	f) Cord replacement does not cause a HAZARD and method of strain relief is clear	Anbotek Anbotek	N
Anba.	Push-pull and or torque test	Jek Aupore Mun -otek	N
5.10.3	Plugs and connectors	botek Anboter Anbo	- 4 ₆
Ambo	Mains supply plugs, connectors etc., conform with relevant specifications	Vupotek Pupotek Pupo	otek N



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10	EN 61010-1	Au Polek Wu	Do.,
Clause	Requirement – Test	Result - Remark	Verdict
Mara	Anbotek Anbo, Anbotek anbotek	Anbo ak Botek	Aupole
Anbotek	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	k Anbore Anborek	Anbote
	Plugs of supply cords do not fit mains sockets above rated supply voltage	obotek Ambotek Ambot	Nanb
k An	MAINS-type plugs used only for connection to MAINS supply	Anbotek Anbotek An	nbotekN
anbotek	Plug pins which receive a charge from an internal capacitor	Anborek Anborek	Anb New
abotek	Accessory MAINS socket outlets:	ak motek Ambotes	N
Anbot	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	nbotek Anbotek Anbote	Namb Rek
otek Vu	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT	Anbotek Anbotek An	photok N
6.11	Disconnection from supply source	Anbo. A. botek	Aupole.
5.11.1	Disconnects all current carrying conductors	Aupo, Ar Motek	Alie Ofer
5.11.2	Exceptions	tek Anbole And	dna-
5.11.3	Requirements according to type of equipment	abotek Anbote Ans	Not
5.11.3.1	Permanently connected equipment and multi- phase equipment	Anbotek Anbotek Anb	_{Nbotek} N
- No.	Employs switch or circuit-breaker	Anbore Ame ofek	Anto N
Aupotek	If switch or circuit-breaker is not part of the equipment, documentation requires:	Anbotek Anbotek	An botel
Anbore	a) Switch or circuit-breaker must be included in the installation	botek Anbotek Anbote	N ^{mb}
Ant	b) Suitable location easily reached	anbotek Anbore Ans	N Yestow
tok.	c) Marking as disconnecting for the equipment	abotek Anbote	N
5.11.3.2	Single-phase cord-connected equipment	hotek Anboten	Pup.
nbotek	Equipment is provided with:	ok notek Anboten	Aupo
abole	a) Switch or circuit-breaker; or	K wotek Anbotek	Nupo
. ",0	b) Appliance coupler (disconnectable without tool);	bote. And otek ando	N M
Pr.	c) Separable plug (without locking device)	Anborer Anti-	potek N
5.11.4	Disconnecting devices	Anboten Anbo	Yeroote
pole	Electrically close to the SUPPLY	Aupoten Aupo	Nex
5.11.4.1	Switches and circuit-breakers	ek Anbotek Anbote	N
Anbore	When used as disconnection device:	stek supotek Aupoten	N
anb	Meets IEC 60947-1 and IEC 60947-3	per potek Aupo	N
lek .	Marked to indicate function	Vupo. Vin Polek Vi) N
-10/k	Not incorporated in MAINS cord	Aupon Aun	N York



duct Safet	Page 24 of 55 EN 61010-1	2 Report No.: SZAHS200	<u> 102001-0</u>
Clause	Requirement – Test	Result - Remark	Verdict
. No.	botek Anbotes Anbotesk	Anbal	Anbores
Anboro	Does not interrupt PROTECTIVE EARTH CONDUCTOR	ek Anbotek Anbotek	Notek
6.11.4.2	Appliance couplers and plugs	trote Amendek ambote	Vupo,
ak An	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	inbotek Anbotek Ant	otek Ar
ootek	Readily identifiable and easily reached by the operator	Anbotek Anboten	M Anbotek
Anbotek	Single-phase portable equipment cord length not more than 3 m	ek Anbotok Anbotok	Notek
Anbote	Protective earth conductor connected first and disconnected last	nbotek Anbotek Anbote	Namba
Sk Bul	Dog Wolek Wupoley Wupo	anbotek Anboten Anb	Make
7otek	Protection against mechanical hazards	otek hobotes	

7.10k	Protection against mechanical hazards		10 10 10 10 10 10 10 10 10 10 10 10 10 1
7.1 otek	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	tek Anbotek Anbotek	Anbotek Anbotek
anb	Conformity is checked by 7.2 to 7.7	rek opolek Vupole	P
7.2	Sharp edges	hbor Anbrek Anbre	P And
401	Easily-touched parts are smooth and rounded	Aupon Mosek b	ipoten P
bo.	Do not cause an injury in normal use and	Aupor Aur Potek	Anbo'P
Aupon	Do not cause an injury in single fault condition	Anbores Ansoniek	N.Botek
7.3	Moving parts	lek Aupoles Vupo	- abotel
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	ipotek Aupotek Aupo	ek N Anbr
ootek	RISK assessment in accordance with 7.3.3 carried out	Ambotek Ambotek	Anbot N
7.3.2	Exceptions:	Aupo, ak motek	ANSOFER
Anbo	Access to HAZARDOUS moving parts permitted under following circumstances:	lek Anbotek Anbotek	Nabolek
or by	a) obviously intended to operate on parts or materials outside of the equipment	Anbotek Anbotek Anbo	N Ame
otek	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)	Anbotek Anbotek	Anbot N
Anbotek	b) If operator access is unavoidable outside normal use following precautions have been taken:	ek Anbotek Anbotek	An Nicotek
r br.	1) Access requires TOOL	pore. And stek subo	N Anbo
62	2) Statement about training in the instructions	Aupotok Aupo	LOYEK N AS



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(a) V()	Drok Polok Wildon Williams	D. door D. Mary	184
Clause	Requirement – Test	Result - Remark	Verdict
Noton	Anbores And abotek Anbore	All Tell Nation	rupo.
Anborok	Warning markings on covers prohibiting access by untrained operators	ek Auporek Wapolek	Anboren
	or symbol 14 with full details in documentation	to. W wotek aupote	Nanbe
7.3.3	Risk assessment for mechanical HAZARDS to body parts	Anbota Anbotek Ant	otek N A
ootek	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Anbotak Anbotan	Anbotek
Aupo.	Minimum protective measures:	Aupotes Aug	Notek
Anboten	A. Low level measures	otek Anbotek Anbo	N N
Anbore	B. Moderate measures	Lotek Anbotek Anbot	N
ak ant	C. Stringent measures	motek Anbotek Anb	N
7.3.4	Limitation of force and pressure	Anto otok Anbotok	N _N
Anbotek	Following levels are met in normal and single fault condition:	Anbotek Anbotek	Anbon N
Anboron	Continuous contact pressure below 50 N / cm² with force below 150 N	otek Anbotek Anbotel	N
ik Ant	Temporary force below 250 N for an area at least of 3 cm² for a maximum duration of 0,75 s	hbotek Anbotek Anb	N M
7.3.5	Gap limitations between moving parts	And Anbotek	N
7.3.5.1	Access normally allowed	And otek Anbotek	Anborn N
Anbotek	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in Table 13 assured in NORMAL and in SINGLE FAULT CONDITION	nbotek Anbotek Anbotek	A'N Anbol
7.3.5.2	Access normally prevented	abotok Anboto An	otek N
otek I	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Anbotek Anbotek	Anbot N.
7.4	Stability	Anbore An sotek	Anbolek
Anborel	Equipment not secured to the building structure is physical stable	lek Anbotek Anbotek	Panbol
L Aup.	Stability maintained after opening of drawers, etc. by automatic means, or	Anbotek Anbotek Anbo	N An
rotek p	Warning marking requires the application of means	Ambotek Ambotek A	_{Anbot} N
Anbotek	Compliance checked by following tests as applicable:	ek Anbotek Anbotek	Pupoten.
Anbotek	a) 10° tilt test for other than handheld equipment	stek sabotek Anboten	N
Ambo	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	notek Anbotek Anbo	N



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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
, all	potek Aupois Aug tak "potek	Aupon Annatok	Mpoles
Anborok	c) downward force test for floor-standing equipment	ek Anbotek Anbotek	Notek
	d) overload test with 4 times maximum load for castor or support that supports greatest load	potek Anbotek Anbote	Nanbo
ek Mu	e) castor or support that supports greatest load removed from equipment	Anbotek Anbotek And	nbotekN
7.5	Provisions for lifting and carrying	Anbore Am	anboN ^M
7.5.1	Equipment more than 18 kg:	Anbore And	Notek
Anbor	Has means for lifting or carrying; or	otek Anbotes Ann	. N _{abo} t
Vupo,	Directions in documentation	hotek Anboten Anbo	N N
7.5.2	Handles or grips	wotek Anbotek Anb	P
botek.	Handles or grips withstand four times weight	And Anbotek	P.
7.5.3	Lifting devices and supporting parts	And stek anbotek	Aupoli N
Pur Push	Rated for maximum load; or	Anbo.	MN
Vien VI	tested with four times maximum static load	prek Anbo sek shotel	Napoli
7.6	Wall mounting	anbotek Anbor Ak	ioh - Au
an An	Mounting brackets withstand four times weight	Anbotok Anboto Ant	worek-N
7.7	Expelled parts	anbotek Anbote A	wol _{es} e.
anbotek	Equipment contains or limits the energy	A abotek Anboten	N
abotek	Protection not removable without the aid of a tool	K wotek Anbotek	N

8	Resistance to mechanical stresses		- Anb
8.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	Anbotek Anbotek A	P P
Motok	Normal protection level is 5J	Considered 5J	Ann Pack
Anbolek	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	olek Anbotek Anbotek	Anbotek Nanbotek
Vupo,	a) lower level be justified by manufacturer	botek Anbotes Anso	N N
ok pri	b) cannot easily be touched by unauthorzed persons or the general public	Anbotek Anbotek Anbo	potek N
DOJO.	c) only occasional access during NORMAL USE	upotek Anbo, A	N
Anbotek Anbotek	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation	Anbotek Anbotek	Anbotek Anbotek
k Aupot	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature	motek Anbotek Anbotek	N.bo
Vek Vu	Impact energies between IK values, the IK code marked for nearest lower value	Anbores Anborek An	potek N M



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lause	Requirement – Test	Result - Remark	Verdict
010	Turney Pupotek Vapo, Vir. Potek	Vuposes Vupo	abotek
hpoton	Conformity is checked by performing following tests:	k Anbotek Anbotek	Anbotel
Anba	1) the static test of 8.2.1	otek Pupo, K	ek Panbr
Aupor	2) impact test of 8.2.2 with 5J except for hand- held equipment	Inpotek Aupotem Aupo	lostek P
rek Wu	If impact energy not selected to 5J alternate method of IEC 62262 used	Aupotek Vupe, Votek	Matodess
hotek	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anbotek Anbotek	Aupo Dir
upotek.	Equipment rated with an impact rating of lk 08 by that clearly meets the criteria	Lak abotek Anbotek	N
hole	After the tests inspection with following results:	An otek anbot	Vup.
k anb	- Hazardous live parts above the limits of 6.3.2 not accessible	inboton Ambotok An	orken N N
*ek	- insulation pass the voltage tests of 6.8	Anboy All motek	anbore ^N N
- alt	i) no leaks of corrosive and harmful substances	Aupotes, Musical	AnboP
nto oto	ii) Enclosure shows no cracks resulting in hazard	Auporen Mupo	Poter
Aupoto	iii) CLEARANCES not less than their permitted values	tek Anbotek Anbot	al P _{Anb} o
Rinds	iv) the insulation of internal wiring remains undamaged;	upotek Aupon Mil	ode P
tok	V) Protective barriers necessary for safety have not been damaged or loosened	Anborek Anbotek	Mipotek N
nbotek	vi) No moving parts exposed, except permitted by 7.3	Anbotek Anbotek	Anbo'N
anbotek	vii) no damage which could cause spread of fire	ek potek Aupote.	₩.B
.2botel	Enclosure rigidity tests	ok hotek Anbott	P.nb.
.2.1	Static test	ipole Americk Pul	10 ION P N
- Pro-	- 30N with 12mm rod to each part of enclosure	Aupotes Aupo	Apolek P
rotek te	- in case of doubt test conducted at maximum rated ambient temperature	Vupotek Vupotek	Anbo'N'
2.2	Impact test	Applied to enclosure with acceptable results	M P
Anboro	Impact applied to any part of enclosure causing a hazard if damaged	botek Anbotek Anb	of or P
ak.	Impact energy level and corresponding IK code:	Anbores Anb	mootek P
oote ^k	Non-metallic enclosure cooled to minimum rated ambient temperature if below 2°C	Aupotek Aupotek	Ambol P
3 botek	Drop test	k kotek anbotek	N
3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	otek Anbotak Anbota	N
anbo	Test conducted with a drop height or angle of:	on W. Spoker Wup	N N
	HAND-HELD EQUIPMENT and DIRECT PLUG-IN	Pupo, Mr.	olek



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sak k.	EN 6	61010-1	An botek	Anbotek Ar
Clause	Requirement – Test	Resu	ılt - Remark	Verdict
No.	hotek Anbo An	- upolek	Anba	atek anbore
	Non-metallic ENCLOSURES cooled to n RATED ambient temperature if below 2			Anbotek Anbotek
100	Drop test conducted with an height of 1	m Antore	VIII.	Anbote PAnbo

9	Protection against the spread of fire		abotek_
9.1	No spread of fire in normal and single fault condition	Anbotek Anbotek	Amborek
Anbotel	Mains supplied equipment meets requirement of 9.6 additionally	otek Anbotek Anbotek	No.
ek Anbr	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	Inbotek Anboten Anb	itek P Ant
-al-	a) Fault test of 4.4; or	Anboro K Ans	nbořek P
anbotek po,	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	Anbotek Anbotek	AnboN ^k
Anborek	c) Application of 9.3 (containment of fire within the equipment)	tek Anbotek Anbotek	A'P Anbote
9.2	Eliminating or reducing the sources of ignition within the equipment	inbotek Anbotek Anb	lok - Vup
101	a) 1) Limited-energy circuit (see 9.4); or	Anbor A. Morek A	poten N
anbotek Anbotek	Insulation meets the requirements for BASIC INSULATION; OR	Anbotek Anbotek	Anbo'N
anbotek	Bridging the insulation does not cause ignition	tek abotek Anbote	N N
Anbo	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	N ^{mbs}
le bi	c) No ignition in circuits designed to produce heat	anbotek Anbore Ans	N Yetow
9.3	Containment of the fire within the equipment, should it occur	Anbotek Anbotek	Anboten
Anbotek	a) Energizing of the equipment is controlled by an operator held switch	ak nbotek Anbotek	An N ten
Anbo	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	Potek Vupotek Vupoter	ek Anbo
PLC.	Requirements of 9.5 are met	Aupotek Aupo, Nr.	otek N
9.3.1	Constructional requirements	upotek Anbois Ar	wol ot
Anbotek Anbotek	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	Anbotek Anbotek
Anbot	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Dotek Anbotek Anbote	ok P
bu	c) ENCLOSURE meets following requirements:	Pupotek Vupo.	otek P M
N ESS.Y	400	-W F-0. PV	•



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Clause	Requirement – Test	Result - Remark	Verdict
po'	hotek Anbotek Anbo sek abotek	Antores Anto	anborek
Anboro	Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	ek Anbotek Anbotek	Notek
100	i) no openings; or	or Amorek anbote	Paupo
-Ar	ii) perforated as specified in Table 16; or	unbole Ann sek sub	otek N A
ia. bu	iii) metal screen with a mesh; or	Anbores Anti-	abote ^N N
10010	iv) baffles as specified in Figure 12	Aupotak Aupo	$^{po}N_{N}$
Anbotek	Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	Potek
Pur	Metal (except magnesium); or	Dies Vupp	Nanbo
ek An	Non-metallic materials have flammability classification V-1 or better	inbotek Anbotek Anb	Helk P M
botek	ENCLOSURE and any baffle or flame barrier have adequate rigidity	Anbotek Anbotek	nbotek
9.4	Limited-energy circuit	Aupoter Aupo	Apotek.
Anboro	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	tek Anbotek Anbotek	N
Pro-	b) Current limited by one of following means:	hposes Aug stek augs	lok Vu
N. Du	1) Inherently or by impedance;	Anbotes Anb	N ^{Yerod}
boson	2) Over current protective device;	Anbotek Anbo	N ^k
Anborek	A regulating network limits also in SINGLE FAULT CONDITION	Anbotek Anbotek	N _{otek} Anbotek
bu.	c) Is separated by at least BASIC INSULATION	cle. Vupo sek vupotek	Nupor
ak An	Fuse or a nonadjustable electromechanical device is used	botek Anbotek Anbo	lek Vul
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	N Anbotek
Anbolok	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	Anbotek Anbotek	Andrek
- abole	Risk is reduced to a tolerable level :	k notek Anbotek	Aupo
IK WU	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	botek Ambotek Ambot	ek N Ant
otek	b) The quantity of liquid is limited	No such liquid used	N
abotek	c) Flames are contained within the equipment	An Motek Anbotek	Anbo N
-potek	Detailed instructions for risk-reduction provided	Ann otek anbotek	N ⁿ N
9.6	Overcurrent protection	atek supotek	Nipole
9.6.1	Mains supplied equipment protected	Doter Pubp.	ok N Ano
Jok Mus	Basic insulation between mains parts of opposite polarity provided	Anbotek Anbotek An	ootek N



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lan P.	EN 61010-1	hotek Anbors An	464
Clause	Requirement – Test	Result - Remark	Verdict
Va.	hotek Arbo, Ar tek hotek	Auga.	Mode
	Devices not in the protective conductor	ek Anbore And	Notek
Anbore	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	botek Anbotek Anbote	N
9.6.2	Permanently connected equipment	Anbore Ant atek ant	otek N An
-/c b2	Overcurrent device:	Anbote Anb	nbotel N
pole	Fitted within the equipment; or	Anboren Anbo	nboN ^N
Anbore	Specified in manufacturer's instructions	ek Anbotek Anbo	Notek
9.6.3	Other equipment	stek ambotek Anbot	N mot
odoo	Protection within the equipment	ok botek Anbolt	N

10	Equipment temperature limits and resistance to	heat	Upo,
10.1	Surface temperature limits for protection against burns	Anbotek Anbotek	Anbotek Hotek
Aupoten	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	P Anbot
Vien	- at an specified ambient temperature of 40 °C	upotek Aupo	ok N An
otok Ar	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anbotek Anbotek Anbotek	botek P
Anbore	Heated surfaces necessary for functional reasons exceeding specified values:	Anbotek Anbotek	Aupotek
Anbo	Are recognizable as such by appearance or function; or	Potek Vupotek Vupotek	Nabo ¹
k Pi	Are marked with symbol 13	hotek Anbotek Anb	N
otek	Guards are not removable without TOOL	An-	N
10.2	Temperatures of windings	Ann atek anbotek	Aupor
no tek	Limits not exceeded in:	And sek anbotek	AUDO10
bu.	NORMAL CONDITION	Anbotek spotek	Pupos
Vien	SINGLE FAULT CONDITION	botek Anbo Lek Abo	ek P an
10.3	Other temperature measurements	(see appended table)	potek P
olek.	Following measurements conducted if applicable:	Anbotek Anbots At	wolek
nbotek	a) Value of 60 °C of field-wiring terminal box not exceeded	Anborek Anbore	And N
Anboro	b) Surface of flammable liquids and parts in contact with this liquids	ek Anboten Anbotek	N
AMD	c) Surface of non-metallic enclosures	botek Anbo. Al.	ak P Ant
e Ani	d) Parts made of insulating material supporting parts connected to mains supply	Anbotek Anbote Ane	ootek N
10.4	Conduct of temperature test	upoter Anbo	P.



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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
- o.k	hotek Anbores And	Anba	Aupoles
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	k Anboten Anbotek	Potek
10.4.2	Temperature measurement of heating equipment	otek Anbo. A. hote	N Anbo
Vupo,	Tests conducted in test corner	apolek Aupola Am	N N
10.4.3	Equipment intended for installation in a cabinet or wall	Anbotek Anbotes Ans	obotekN
oo _{fe} .	Equipment built in as specified in installation instructions	Anbotek Anbo	Anbolk
10.5	Resistance to heat	Anbore Ans	Potek
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	otek Anborek Amborel	P
10.5.2	Non-metallic ENCLOSURES	inport And	Jen P
- o/r	Within 10 min after treatment:	Anbore Am	nbotell P
10.5.3	Insulating material	Anbores Anbo	Anbo P ^N
Anborek	a) Parts supporting parts connected to MAINS supply	anboles Anbolek	Potek
1001	b) TERMINALS carrying a current more than 0.5 A	t wiek anboter	Pinbo
Nr. Press.	Examination of material data; or	upotes the upo	iek b w
r. bres.	in case of doubt::	Aupoles Aupo	bolek
otal	1) Ball pressure test; or	Aupotek Aupo, V	P ^k
Aupoles	2) Vicat softening testof ISO 306	Anbotek Anbot	Potek

11 Anbore	Protection against hazards from fluids		- Pro-
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Anbotek Anbotek Anbo	N A
oole,	All fluids specified by manufacturer considered	Anbotok Anbo.	N
11.2	Cleaning	Anbotek Anbo.	Nek
11.3	Spillage	ek nbotek Anbote	N work
11.4	Overflow	rek abotek Anbore	N
11.5	Battery electrolyte	bo wek abotek Anbo	- Ann
10/4	Battery electrolyte leakage presents no hazard	Aupo, W. Wolek W.	poter N A
11.6	Specially protected equipment	Aupor Au Motek	Anbot N
11.7	Fluid pressure and leakage	Anbore And John	antotek
11.7.1	Maximum pressure	ek Aupole, Aug	-nbotek
k Anbora	Maximum pressure of any part does not exceed P_{RATED}	potek Anbotek Anbot	k N Anbo
11.7.2	Leakage and rupture at high pressure	Anbor An	Poley N M



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lek v	EN 61010-1	Anbo kek abotek Ant	ole. b
Clause	Requirement – Test	Result - Remark	Verdict
, ale	Hotek Wiposs Win Tek "Potek	Vupo. Viek	Aupoles
Anboro	Fluid containing parts subjected to hydraulic test if:	ok Anbotek Anbotek	N _{otek}
A.nbo	a) product of pressure and volume > 200 kPal; and	obotek Ambotek Ambote	Nanbo
ek N	b) pressure > 50 kPa	botek Anbotes Ant	, N
anbotek anbotek	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	Anbotek Anbotek	nbotek Anbotek
11.7.3	Leakage from low-pressure parts	Lak botek Anbote	N
11.7.4	Overpressure safety device	ok hotek Anbore	-Anbo
9/r	Does not operate in NORMAL USE	Inport And	Her N M
potek A	a) Connected as close as possible to parts intended to be protected	Anbotek Anbotek	nbote ^N N
Anbotek	b) Easy access for inspection, maintenance and repair	Anbotek Anbotek	Anbotek Anbotek
Anbo	c) Adjustment only with TOOL	otek Anbore And	N _{nb} o [†]
Vupo	d) No discharge towards person	abotek Anbores Ans	N Yes
Sk W	e) No HAZARD from deposit of discharged material	botek Anbotes Anb	N
potek	f) Adequate discharge capacity	Motek Anboten A	N.
Anbotek	No shut-off valve between overpressure safety device and protected parts	Anbotek Anbotek	Anbo N

12	Protection against radiation, including laser soultrasonic pressure	urces, and against sonic and	ek vup
12.1	Equipment provides protection	Anborer Anb	ootek N
12.2	Equipment producing ionizing radiation	Anboten Anbo	N obo
12.2.1	Ionizing radiation	Anbotek Anbot	Neck
12.2.1.1	Equipment meets the following requirements:	ek anbotek Anbot	N motel
Anbote	a) if intended to emit radiation meets requirements of 12.2.1.2; or	botek Anbotek Anboro	N Amb
osek bu	tested, classified and marked in accordance to IEC 60405	Anbotek Anbotek Ar	ootek N
Anbotek	b) if only emits stray radiation meets requirements of 12.2.1.3	Ambotek Anbotek	Ambo'N
12.2.1.2	Equipment intended to emit radiation	ek Anbotek Anbo	N
Anbore	Effective dose rate of radiation measured	otek Anbotek Anbot	N
K Anbr	If dose rate exceeds 5 µSv/h marked with the following:	Anbotek Anbotek Anbot	otek N A
ofo. b	a) Symbol 17 (ISO 361)	Anbotek Anbo	Nerode



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01	Dealine and Task	Destall Desses	1 V P .
Clause	Requirement – Test	Result - Remark	Verdict
Natodan	b) Abbreviations of the radionuclides:	k botek Anboten	Note
h. spotek	c) With maximum dose at 1 m;or	Augotek Augotek	N
VII.	with dose rate value between 1 µSv/h and 5	ote, hung stek vupote	N
	μSv/h in m	inboten Anbo otek ont	otek b
12.2.1.3	Equipment not intended to emit radiation	Anbotes Anti-	N ^{latodel} N
opolek	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	Anbotek Anbotek	AnboN ^N
12.2.2	Accelerated electrons	And otek anbotek	N
Arr.	Compartments opened only by the use of aTOOL	Ster Aug.	N _A nb ^c
12.3	Ultra-violet (UV) radiation	Conformity test under consideration	Jek b
otek I	No unintentional and HAZARDOUS escape of UV radiation:	Anbotek Anbotek	nbot N
Vupore	- checked by inspection; and	Anbores Anbo	Notek
Anboro	- evaluation ofRISKassessment documentation	tek Anbotek Anbo	N
2.4	Microwave radiation	otek Anbotek Anbo	- Pro-
K AND	Power density does not exceed 10 W/m²:	no stek nabotek Anbi	N
12.5	Sonic and ultrasonic pressure	And tek anbotek p	1001
12.5.1	Sound level	Anto tek abotek	Anbo N
up of ek	No HAZARDOUS sound emission	Anbo Lok abotek	M. No.
Anbotel	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	potek Anbotek Anbotek	N _{nb} o
Vu _D	Instruction describes measures for protection	Anbotek Anbo	N ^{Notok}
12.5.2	Ultrasonic pressure	anbotek Anbor	"okN"
Anbotek	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	ek Anbotek Anbotek	Notek Anborek
Aupole	Equipment intended to emit ultrasound:	otek Anbotek Anbo	N
Anbo	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz	Anbotek Anbotek Anbo	potek N
V 6	If inside useful beam above values exceeded:	Aupoten Aupe.	N rode
nbote	Marked with Symbol 14 of Table 1	Anbotek Anbox	Nek
Anbolen	and following information in the documentation:	ek Anborek Anbore	N
Anbotek	a) dimensions of useful beam	tok upotek Vupoter	N
anbo	b) area where ultrasonic pressure exceed 110 dB	box work who	N M
ek .	c) maximum sound pressure inside beam area	Aupor Aura notek ar	potek N
12.6	Laser sources	Vupose Vue	"pole"



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	1 agc	Tage of or oz Report No.: OZANOZOOT		
rok "	EN 61	010-1		
Clause	Requirement – Test	Result	- Remark	Verdict
Up.	notek Anbott An	abolek An	Po. Pr.	Aupore
Anboro	Equipment meets requirements of IEC 60	825-1		tok Notek

13 Anbo	Protection against liberated gases, explosion a	nd implosion	101
13.1	Poisonous and injurious gases and substances	No injurious gases	N
	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	Anbotek Anbotek	N Ambatak
Vupor	Attached data/test reports demonstrate conformity	k Anbote. And	Note
13.2	Explosion and implosion	otek Anboten Anto	00
13.2.1	Components	notek Anbotek Anbo	10 No.
ik anb	Components liable to explode:	In Lotek Anbotek Anb	
otek	Pressure release device provided; or	And Mek Anbotek	N.
Anbotek	Apparatus incorporates OPERATOR protection (see also 7.7)	Anbotek Anbotek	AnboN N
Anboro	Pressure release device:	tek Anbotek Anbo	
Anbore	Discharge without danger	otek anbotek Anbo	N
k Anb	Cannot be obstructed	no tek nbotek Anbo	N
13.2.2	Batteries and battery charging	Aupa, Pek apolek V	Pole -
Note	If explosion or fire hazard could occur:	Anbo ak abolek	Anbole
Anb rek	Protection incorporated in the equipment; or	Aupo, ok hotek	W. No. co.
Anbote!	Instructions specify batteries with built-in protection	tek Anborek Anborek	Nabe
k anb	In case of wrong type of battery used:	hos abotek Anbo	P
tek .	No HAZARD; or	Anbo Ak bolek Ar	N N
-lek	Warning by marking and within instructions	Pupo, Vr. Wolek	Nodna
anbotek	Equipment with means to charge rechargeable batteries:	ek upotek Anbotek	Anbotek
Anbotek	Warning against the charging of non-rechargeable batteries; and	botek Anbotek Anbotek	N ^{nto}
Aup	Type of rechargeable battery indicated; or	Anbotek Anbot Air	notek N
John b	Symbol 14 used	anbotek Anbote An	N
nbotek	Battery compartment design	abotek Anbote	Nek Nek
anbotek	Single component failure	ak spotek Anbotes	A ^m N
abotek	Polarity reversal test	ok hotek Anbotek	N
13.2.3	Implosion of cathode ray tubes	No such device used	by
ok bu	If maximum face dimensions > 160 mm:	Aupole, Vun	oolek
le.	Intrinsically protected and correctly mounted; or	Vupoter Vupo.	wo's N



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rok p.	EN 61010-1	Anbore And Andrew An	potek Ar
Clause	Requirement – Test	Result - Remark	Verdict
- ok	Potek Vipote, Vien sek upote,	Anbar	Anborek
Anboro	ENCLOSURE provides protection:	itek Anboter Anb	Notek
Anbore	If non-intrinsically protected:	Hotek Anbotek Anbo.	1001
Anbot	Screen not removable without TOOL	notek anbotek Anbox	N
rek an	If glass screen, not in contact with surface of tube	And sek anbotek An	N

14	Components and subassemblies		AnboP
14.1	Where safety is involved, components meet relevant requirements	stek Anbotek Anbotek	Poles
14.2 Marino 118	Motors	otek Anbotek Anbot.	- Pire
14.2.1	Motor temperatures	into tek abotek Ant	Vu
otek	Does not present a HAZARD when stopped or prevented form starting; or	Anbotek Anbotek	nbore N
Anborek Motek	Protected by overtemperature or thermal protection device conform with 14.3	Anbotek Anbotek	N N Anbotek
14.2.2	Series excitation motors	tek Aupo	K Anbol
and And	Connected direct to device, if overspeeding causes a HAZARD	nbotek Anbotek Anb	olek N An
14.3	Overtemperature protection devices	And atek Anbotek	N N
Note:	Devices operating in a SINGLE FAULT CONDITION	Anbo tek abotek	AnboN
Ann	a) Reliable function is ensured	Anbo. Lok abotek	N. N.
Anbote'	b) RATED to interrupt maximum current and voltage	tek Anbotek Anbotek	Nupote
k anb	c) Does not operate in NORMAL USE	no tek abotek Anb	N
otek l	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	Anbotek Anbotek	N Arbotek
14.4	Fuse holders	Anti-	MAN
Pur note,	No access to HAZARDOUS LIVE parts	les Anno	Nupore
14.5	Mains voltage selecting devices	botek Anbo. Lek	ak N and
And	Accidental change not possible	Anborek Anbo. All	notek N
14.6	Mains transformers tested outside equipment	anbotek Anbot	N
14.7	Printed wiring boards	abotek Anbore	Nek
Anbotek	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	ek Anbotek Anbotek	And N Anbote
Anbo	Test shows conformity with V-1 of IEC 60695-11-10 or better	potek Anbotek Anbo	tek N Anto
Nek by	Not applicable for printed wiring boards with limited-energy circuits (9.4)	Anbotek Anbotek A	N N



	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
- 2/0	hotek Anbore And tek obotek	Anbor An	Anborek
4.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	Anbotek Anbotek	Mote
Anbo	Test conducted between each pair of MAINS SUPPLY TERMINALS	oto Annotek Anbote	Nanb
rak bi	No HAZARD resulting from rupture or overheating of the component:	Anbotek Anbotek Ant	nbotel N
-V-	- no bridging of safety relevant insulation	Anbora Am	Node N
unbotek	- no heat to other parts above the self-ignition points	Anbores Anborek	Note
nbo ⁱ	ek Anbore Anti-	or Autores Autore	VUD.
5	Protection by interlocks	Anbore Ann	40h b
5.1	Interlocks are designed to remove a hazard before OPERATOR exposed	Anbotek Ambotek	N FEE
5.2	Prevention of reactivating	wotek Anbotek	Anbot N .av
5.3	Reliability	And worker ambotek	Aupor
huo,	Single fault unlikely to occur; or	are And atek Anbotel	Nanbe
Non	Cannot cause a HAZARD	upoles Aug tek upl	ok N P
Pr.	otek spotek Anbore	Anborak Anbo	bolek
16	HAZARDS resulting from application	Anbotek Anbo	,50 P
6.1	REASONABLY FORESEEABLE MISUSE	Aupotek Aupon	Nyek
Anbotek	No hazards arising from setting not intended and not described in the instructions	lek Anbotek Anbotek	N
Ama	Other cases of reasonable foreseeable misues addressed by risk assessment	spotek Vupotek Vupo	o ^M N M
6.2	Ergonomic aspects	Ann tek sabotek A	100, B
nbotek	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:	Anbotek Anbotek	Anbo'P
anbotek.	a) Limitation of body dimensions	ok botek Anboter	₽0P
Noda.	b) Displays and indicators	ak notek Anboten	Pupo
14.	c) Accessibility and conventions of controls	bore Anti-	PA PA
ak pr	d) Arrangements of TERMINALS	Anbore Ann otek ar	potek P
7°''	Risk assessment	Anboten Anbo	, solotek
Anbore.	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	N Anbot
	Tolerable rish achieved by iterative documented	pore. And	N p.ri
Ant	process covering the following:	hotek Anbote And	You
ek Ant		Anbotek Anbotek An	N



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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Up.	Hotek Wupoten War Hok "Apoten	Vupo, Mariek	Vuposer
Anbor	b) RISK evaluation	ek Anbores And	Notel
Anboro.	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	otek Anbotek Anbote	N Anbr
lek Vul	c) Rish reduction	botek Anbote And	N
botek	Initial risk reduced by counter measures:	An hotek Anbotek	N
Anbotek	Repeated risk evalution without new risks introduced	Anbotek Anbotek	Anbole N
Anbor	Risks remaining after risk assessment addressed in instruction to responsible body:	stek Anbotes Ann	, N
0/4 /4	Information contained how to mitigate these rishs	Inbote Ann	N N
potek bu	Following principles in methods of risk reduction applied by manufactuer in giver order:	Anbotek Anbotek	nbote ^k N
abotek	1) RISKS eliminated or reduced as far as possible	An work Anboten	AnboN .ak
Anborek	Protective measures taken for risks that cannot be eliminated	tek Anbotek Anbotek	NA
ek Aupoli	User information about residual risk due to any defect of the protective measure	nbotek Anbotek Anb	lek N
rol.	Indication of particular training is required	Aupolo Aus	bolen N
anbotek	Specification of the need for personal protective equipment	Anbotek Ambotek	Anbo'N'
Anbotek	Conformity checked by evaluation of the risk assessment documentation	lek Wipolek Wipoles	N ^A

o ³	ANNEX F	ROUTINE TESTS	Anbo.	w. botek	Anboten	AUD	-101-	
	potek N	Manufacturer's declaration	Anbor	Vi. Polek	Anborek	67	N	Ī



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4.4.2	Table: Summary of single fault condtions	Aupor	b22.	otek Anbotek P A
Subclause	Titel	Not apply	Carried out	Comments
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Х	ootek	Walter - Walter
4.4.2.2	Protective impedance	X ^{Nest}	Anboro	Ann of the Ambol
4.4.2.3	Protective conductor	bolek	X	And -tok
4.4.2.4	Equipment or parts for short-term or intermittent operation	X	Anbo	notek Anbotek
4.4.2.5	Motors	X	, b	notek - Anbotek
4.4.2.6	Capacitors	. AT	Х	And atek - Anbolek
4.4.2.7	Mains transformers	Nok	X	Anbo
4.4.2.8	Outputs	X	Anbore	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	1001	X N	pores Anso
4.4.2.10	Cooling	Х	otek	Anbores - Anborre
4.4.2.11	Heating devices	Х	notek	Anboren Anbo
4.4.2.12	Insulation between circuits and parts	Х	Pur Olek	Pupotek Pupo
Note:	ek Anbotek Anbe	upolen	Anbo	ek Anbotek Ar

5.1.3 c)	TABLE: N	MAINS supply				N
Anbotek	Marked ra	ting (V)	Mitotel At	100	bolek - Anb	ole
anbotek	Number o	f phases	Model	Vupo,:	botek-	Aupoter
hotel	Frequency	y (Hz)	Amotek	Anber	Pr. Polek	Amborek
K	Current (n	nA)	ek satisfick	Pupota	An-	Anbo
rol.	Power (W)		ek : Vupote	k And	+ 4
0, b	Power (VA	٠	/pu	otek : Anbo	- Anto	tek
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Comments
D'27/20	- 35	- holes	Vuo.	-Very 200-	mbol P	"A - "PO
Note(s):						

5.3	TABLE: Durability of markings		porter P	P
	Marking method (see note)		Agent	
1) Adhesi	ve label	Α	Water	V
2) Ink prir	nted Amborek Amborek N	В	Isopropyl alcohol 70%	10.
3) Laser r	marked	С	(specify agent)	/po
4) Filmco	ated (plastic foil control panel)	D	(specify agent)	Ar
5) Imprint	on plastic (moulded in)	Е	(specify agent)	



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Marking location Marking method (see above) - Identification (5.1.2)	
- Identification (5.1.2) 1	
- Mains supply (5.1.3) 1	oler
- Fuses (5.1.4):	Anbote
- Terminals, connections and operating devices (5.1.5)	Ant
- Switches and circuit-breakers (5.1.6)	N.
- Double/reinforced equipment (5.1.7):	
- Field-wiring TERMINAL boxes (5.1.8):	ole
- Warning markings (5.2) 1	Anbore
Method Test agent Remains legible Label loose Curled edges Verdict Verdict Commer	ts
1 A, B P P P	10
Note(s):	4

6	TABLE: Prot	ection agai	inst electr	ic shock					N note
Anbote	Block diagran	n of the syst	em	upole.	Ville	401	anbotek	Vupo,	
arbe	Pollution degr	ee		hupoles	.A.M	3	nbotel	k Anbr	
Note N	Overvoltage i	nstallation c	ategory	lodes		HII .	ek ab	ofek p	
Location	1 t\/na	Max. working	Cree	epage dist	ance (no	ote 3)	Clearan ce (note	Test voltage	Comments
description	(note 1)	voltage (note 2)	PWB	CTI	Other	CTI	TI mm	(note 2)	
an botek	Vupo,	P.11.	ok	upotek.	Pupo	- 40.	P POFSK	hepote.	AUD
BI = BASIC DI = DOUB PI = PROT RI = Reinfo	Type of insulati INSULATION LE INSULATIC ECTIVE IMPEI Inced INSULAT Ementary INSU	DN DANCE ION	IOTE 2 – Peak impu		oltage (p	ulse)	NOTE 3 – I CATEGORI CATEGORI DEGREES should be s "Comments	ES (OVER ES) or POI which diffe hown unde	VOLTAGE LUTION r from these

6.2	TABLE: Dete	ermination of accessible p	parts	ek P Anb
	Item	Description	Determination method	Exception under 6.2.1
inbotek	Mostek A	Examination	The jointed test finger (see figure B.2) is applied in every possible position	Anbotek P Anbotek
Note(s):	ok wotek	Anbotek Anbo.	botek Anbotes	Anti-

6.5.2.4	6.5.2.4 TABLE: Impedance of protective bonding of plug-connected equipment					
ACCESSIBI	LE part under test	Test current (A)	Voltage attained after 1 min (V)	Res	ult	



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10/4	abotek_	Vupole.	Vup.	anbotek	Anbois	Pun	Antorek	MUL
Note(s):	-botek	Anboten	And	habotek	Anboro	Aris Potek	Anbotek	

6.5.2.5	TABLE: Impedance equipment	ce of protective bondi	ng of permanently connec	cted	Notek Anbotek
ACCESSIE	BLE part under test	Voltage attained (s)	Time for voltage to drop below allowable levels(s)	Res	ult
ek anbo	lek bupo.	Anbe	Ver Vup	potek Anb	or bu
Note(s):	hbotek Anbor	ok hotek A	nbotek Anbo	nbotek	'upote.

-101	- 000	V-1	V.	-010.	PULL	who had	Dir.
6.7	TABLE	: Insulation	requi	rements			N
8 14100	Resista	nce to mec	hanica	l stresses	abotek	Aupore Au	Nanbot Nanbot
10.5.1	Integrity	of CLEARAI	NCES 8	and CREEPAGE DIS	STANCES	Anbore Ar	N N
	Location			al CREEPAGE STANCE (mm)	Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments
notek	Anhoten	Aupo	400	Nafode.	mbore Ans	otek - nbotek	Pupo,
Note(s):	anboli	anb Anb	V	hotek	Anbore. Ar	tek abo	ek Aupol
Mechanic force	,	Statio		Dynamic	Drop test, normal	Drop test, hand- held	Comments
/k ~ <u>/p</u>	otek	Anbore	Ann	tek sabołe	Anboro M	VIII.	Anbotek Ani
Note(s):	work.	Anboren	PL	de Nos	olek Aupole	Vinn Sak	abolek
5.65*	454			2012		W	10.

6.8 TA	ABLE:	Dielectric strength	tests for protection	against the spre	ad of fire	Brak
Location Input to accessible part		Working voltage (V)	Test voltage (V)	Result	Comme	nts
		hotek Anbot	1000V	Anbor P An	ootek An Pite	rek Ant

6.10.2	TABL	ABLE: Cord anchorage tests							
	Location		Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comm	ents
(-)	porek.	Aupoter	- Pup	101	- abotek	Vupole.	Pun Usek	unbotek	Aupo
Note(s): I	No cord p	rovided	ien b	nbo	A. abotel	k Aupoles	Pup.	nbotek	P ₂



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8 T	8 TABLE: Resistance to mechanical stresses						
Llocation	า	Static	Dynamic	Drop test, normal	Drop test, hand-held	Result	Comments
Enclosure	e _{lpol}	*K 200	Pass	-Anbo	ek - abot	Pass	Ann

Note(s): 1). 30N applied by the hemispherical end of a hard rod of 12 mm diameter

- 2). 50mm diameter steel sphere with a mass of 500g impact from position of 1m height
- 3). dropped once through a distance of 1 m on to a 50 mm thick hardwood board having a density of more than 700 kg/m³.

9	TABLE: Protection against the spread of fire			P _K
Item	Source of hazard or area of the equipment considered (circuit, component, liquid etc.)	Protection method (9a, 9b, 9c)	Protection details	Comments
Plastic parts	Anbor All Morek Anborek	9a	abotek Anb	Pun Vun
Note(s):	k Anbore k An-	Vupo.	bolek p	inpoter. Aut

9.3.1	TABLE: Containment of fire within the equipmen	nt	AnboN [®]
14.7	Printed wiring boards	k Anbole And	Notek
Aupora	Material tested:	yek Aupotes Pube	
Vupos	Generic name:	motek Anbotek Anbe.	
an' An'	Material manufacturer:	notek Anbotek Anbo	
Netok	Type designation:	Ame otek anbotek A	
hotek	Colour:	Anto nek Anbotek	
Polek.	Conditioning details:	And tek anbotek	
Anbor	Thickness (mm):	1 - Anbotek Anbotek	
Arth	ster unpotek vupote. Vun	3 - Anbor Anbor	
	Duration of flaming after first application (s):	1 - 2 - 3 -	
Ambole	Duration of flaming plus glowing after second application (s)	1 - Anbotek Anbotek	
stek mat	Specimen burns to holding clamp (Yes/No):	1 – 2 – 3 -	
Anbotek Anbotek	Cotton ignited (Yes/No):	1 – 2 – 3 -	
Note(s):	Dra You When Aupoles Aupol	botek Anbores Anbo	.voV



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9.4	TABLE: Limited-energy circuit							
potek h.		naximum power((VA); 4 – overlo	r.m.s./dc.(V); 3 – modernation after ments		Inbotek Anbotek		
1	2	3	4	5	6	7		
Anb.	" Jak	Nupole 1	100 m	motek Pupp.	Pr.	100d 401		
Note(s):	And	abotek	Anboro	an otek an	potek Ar	100. Vr.		

9.5	TABLE: Requirement	TABLE: Requirements for equipment containing or using flammable liquids					
anbotek	Test details: 1 –Type of liquids (containment);	Anbore.					
1	2	3	4				
	6/r	16. VUI	010				

10	TABLE: 1	Temperature	measurements			Anboren	
10.1	Surface to	emperature lir	mits — NORMAL CONE	DITION and / or SIGN	NLE FAULT CONDITION	Parent	
10.2	Temperat	ure of winding	gs- NORMAL CONDITI	ON and / or SIGNLE	FAULT CONDITION	N _{nbotel}	
10.3	Other tem	perature mea	asurements	abotek	Anbors And	ek P anbo	
Operating of	conditions:	Normal work	ing	lek hotek	Anbore. And		
otek A	Frequenc	y (Hz)	Ani		ek Anboten	·	
nbotek	Duration (h, min)	Model	Anbor	hour 50 min		
abotek		Voltage (V):					
-botek		Ambient temperature Ta (°C) 24.5°C					
k Anbo	maximum		Tm + 40°C – Ta (°C		Tm (°C); 3 – corrected lowed temperature	upotek Anbo	
1		2	3	4	5	6	
IC	Anbotek	anbore	59.7	130	notek P Ambotek	*upolen	
Internal wire	e Anbo	tek And	45.5	105	Anhote P An Jotel	_ Anbo	
PCB Million	or An	obote l.	56.2	130	Ant P	notek An	
Terminal	hotek	Auparek	45.3	120	Phone	Anbotek	
Enclosure	Anbotek	Popoley.	42.9	95	P Andrew	Anbotek	
Note(s):	1	sk Vupo,	by.	0101	VUDO.	20/65	



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10.2	TABLE: Temp	erature of res	sistance m	ethod temp	erature meas	urements	Itek N An
4.4.2.7	MAINS Transfo	rmers	100	abotek	Aupore	Vun VIBK	nbotek N
14.2.1	Motor tempera	tures	upo.	-polek	Anbore	Vuga.	Napa N
Operating	conditions:	Anbotek	Anbor	hore posts	Ik Wipoles	Anba	S
Aupole	Frequency (Hz)	Anbor		sek Anbo	lan Vupo	101
Anbolt	Duration (h, mi	n)	Anbo		hour	min	
ek Anl	Voltage (V)		lek Pi	, pol	N work	Anbotek p	up,
ootek	Ambient tempe	rature Ta₁/Ta	2(°C)	Aupole :	Ame	°C(initial/final)	P
Anbotek	Measurements 6 –T _{max} (°C); 7			- R _{cold} Ω; 3 -	- $R_{warm} \Omega$; 4 – T	r (K); 5 – T _c (°C); Anborek
1	2	3	4	5	6	7	8
bupos,	bu.	anbotek	bupo.		HOREY M	100 to VUE	do 101

Note(s): 1 - Rcold = initial resistance; Rwarm = final resistance; Tr = temperature rise; Tc = Tr corrected (Tc= Tr - { Ta2 - Ta1} + [40 °C or max rated ambient]); Tmax = maximum permitted temperature

Note(s): 2 – Indicate insulation class (IEC 85) under comments (optional)

Note(s): 3 – Record values for normal condition and / or single fault condition in this Form use additional form if necessary

10.5.2	TABLE: Resistance to	heat of non-metallic encl	osures	P P	
k Anb	Test method used:	nbotek Anbote	See below		
otek p	Non operative treatmen	nt	. [√]	P.	
-otek	Empty ENCLOSURE		. [√]	Anbola	
"un	Operative treatment	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	. [] Ando	Vupole.	
	Part	Test temperature (°C)	Duration (h, min)	Verdict	
Anb	Enclosure	125	thotek Antinh	ek P anb	
Anbi	Dielectric strength test	(6.8)	. 500 V r.m.s./peak/d.c	otek P	
Note(s): No	hazardous live parts sha	ll be accessible	Anbotek Anbote A	potek	
10.5.3	TABLE: Insulating materials				
10.5.3a)	Ball pressure test	k Aupora Am	stek Anbotek Anbo	P	
Anbote	Max. allowed impression	on diameter	2 mm	er.	
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdict	
rek n	Terminal	125	Andrew An	P	
Note	PCB	125	Anbo ak 1.1 sotek	Anbol P	
We Stok	Enclosure	125	1.2	Vur. Bien	
Note(s): No	hazardous live parts sha	ll be accessible	tek Anboy tek	Anbote	
10.5.3	TABLE: Insulating mate	rials		N Anbe	
10.5.3b)	Vicat softening test (ISC	O 306)	Anbotek Anbo	otek N p	
	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdict	



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No	abotek	Anbore.	Mer	- Npotek	Aupola	Pu-	Anborek Ani
Note(s):	Anbolek	Aupoten	Anbatek	Anborek	Anboro	Anhotek	Anbotek

11	TABLE: Protection against hazards from fluids							N	
Anbotel	Measurements: 1 – location; 2 – cleaning; 3 – spillage; 4 – overflow; 5 – equipment plus liquid; 6 – working voltage (V); 7 – test voltage (V); 8 – result; 9 – comments								
1	2	3	4	5	6	7	8	9	
18K	doter-	Anbo K	-otek	F-pole.	Pur	46.	1010K NO	00,	

11.7.2	1.7.2 TABLE: Leakage and rupture at high pressure					
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Comm	ents
AUD	abolok.	Anbore Ans.	otok vupo	lok - Vupo,	W woley	Arboter.
Note(s):	abolek	Anbore. A	Vo.	hotek Anbe	or but	ak Anbole
11.7.3	TABLE: Leaka	ge from low-pres	sure parts			rek N ant
Anbo	Measurements:	1 - ; 2 – (Pa); 3 –;	; 4 -	abotek	Anboro An	-otek
	Part	Test press	ure Leak	(Yes/No)	Comm	ents
abotek	Vopole Vu	otek -nbo	lek Vupo,	ok Wolek	Anboren -	Aug
Note(s):	Anbore	Aug.	botek Anbo	12 VIII.	tek anbotek	Anbo

12.2.1	TABLE: Ioniz	zing radia	tion		M. 1-02 MA				ek N Anb		
Lo	Location		Measured values µSv/h			Verdict		Comments		ents	
ole Will		ipotek propor		br.	notek -nboten		ton	lupo - ak		bolek	
Note(s):	Aup. Stok	anbotek	Anbolo	14	Au. "Olek		potek	Vupo.	Nos	polek .	
12.5.1	TABLE: Sour	nd level n	neasuremen	its						N hotel	
	Location	Location		Measured values dBA		Calculated maximum so pressure level					
-K	wołek Anbo	ick.	Aupo.	Pr.	otek	Aupolen	Pup	-tok		otek p	
Note(s):	-otek o	nbotek	Aupo	bree	wołek	Anbo	18/	Yupo Yek		thotek.	
12.5.2	2.5.2 TABLE: Ultrasonic pressure measurements					Nek					
Location			Measured values dB kHz			Comments					
anbol	ek Anbo	ok pr	Hotok	Aupole	bz	100	- 40	otek -	Aupole	. Vun	
Note(s):	polek Vupo	100	hotek	Anb	otok	Vupo.	ok be.	abotek	Anb	ole. V.	



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13.2.2	TABLE: Batteries tests	3			otek	N Pri
al Va	Battery load and charging	ng circuit diagram	Aupole	K Pun	14	
00,	Battery type	Andre	lek Anbo	No. Nun	atek.	
Anboro	Battery manufacturer	And the second s	Polek N	nbotes Ant	, tek	
Aupolo	Battery model	N. N	hotek	Anborek	Anbo	
Anbo'	Battery catalogue No	augak Aupo,	Wolek Pur	Anborek	Anbo	
ek pr	Battery ratings:					
ootek	Reverse polarity instalm	ent test	N VUID	rek anbote	k lupo	N
Singl	le component failures		Verd	dict		
	Component	Open circuit, re	sult	Short	circuit, resul	t
Ann	ek Anbotek Anbo	All motels	Anbotek	Anbo	-bolek	Vupos
Note(s):	tek abotek An	Dore Am	anbotek	Aupo.	notek.	Ant

14.1	TABL	.E: Components			Pek
Object/part	No.	Manufacturer/trademark	Type/model	Technical data	Mark(s) of conformity
Plastic enclo	sure	Du Pont	PA66 FR7025 V0F(NC010)	ABS; HB	Tested with appliance
PCB	otek	Shenzhen Sye Quickpcb Co Ltd	PCB-04	V-0; 130°C	Tested with appliance
Terminal bl	ock	Anytek Technology Corp	Anbotek T7 Anbot	51-300V; 115°C	Tested with appliance
Fuse	Anb	Alpha-Top Technology Corp	mSMD050	33V; 0.5A	Tested with appliance
Piezoresis	tor	Lien Shun Electronics Co Ltd	ZOV-14D471K	470(423-517)	Tested with appliance
Safety capa	citor	Cali Electronics Co Ltd	X2	Anbolek Anbolek	Tested with appliance
Relay	Aupole .	Omron Relay&Devices Corp	G5NB	12-24V; 200mW	Tested with appliance
Internal wi	ire	ZI LI ELECTRONIC CO LTD	2468	300VAC; 20AWG; 80°C	Tested with appliance

14.3	TABLE: Over	temperature protection d	evices		N today
Reliability te	est:				
Com	ponent	Type(see note)	Verdict	Comm	nents
Aupole	- Vun	Anborek Anbor	in makeye ou	ipote, Vupo	ok 2003
Note(s):	Ando	ek abotek Anbo	V VIII	Anbotek Anbo	Pre-
NSR = non-	self-resetting (10 times)			Poles, Vi
NR = non-re	esetting (1 time	poter And			abotek



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SR = self-resetting (200 times)

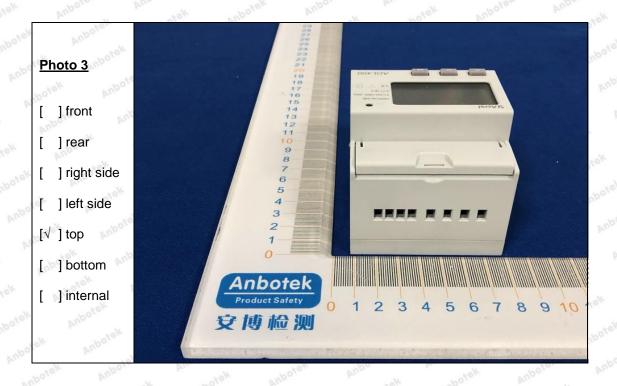
TABLE: Mains transformers tested outside equip	p	N.W.
Type:	k Anbotek An	00,
Manufacturer	otek Anbotek	Anbo
Temperature protection class of the lowest RATED winding (class or maximum RATED temperature):	unbotek Anbotek	Anti
Winding identification:	Anbo. A. bot	s/v.
Type of protector for winding:	Anbor An	ootel ^k
	Short circuit	Over load
Elapsed time		toolek1s Ambol
Current, primary (A)	mbotek Ambor	Woley Wu
Current, secondary (A):	Anborek Anbore	N Pur
Winding temperature, primary (°C):	Anboi	Anu
Winding temperature, secondary (°C)	And Action	John Ann
Tissue paper/cheesecloth test:	otok	Anboren Anbo
Voltage test	Pur Otok	anbotek Anbox
	Manufacturer: Temperature protection class of the lowest RATED winding (class or maximum RATED temperature): Winding identification: Type of protector for winding: Elapsed time: Current, primary (A): Current, secondary (A): Winding temperature, primary (°C): Winding temperature, secondary (°C): Tissue paper/cheesecloth test:	Manufacturer :: Temperature protection class of the lowest RATED winding (class or maximum RATED temperature) :: Winding identification :: Type of protector for winding :: Elapsed time :: 1s Current, primary (A) :: Current, secondary (A) :: Winding temperature, primary (°C) :: Winding temperature, secondary (°C) :: Tissue paper/cheesecloth test ::





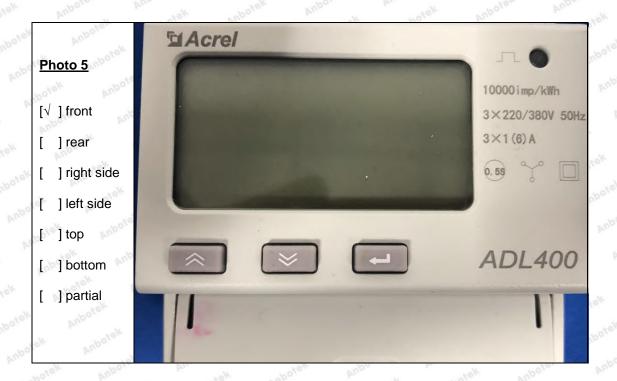


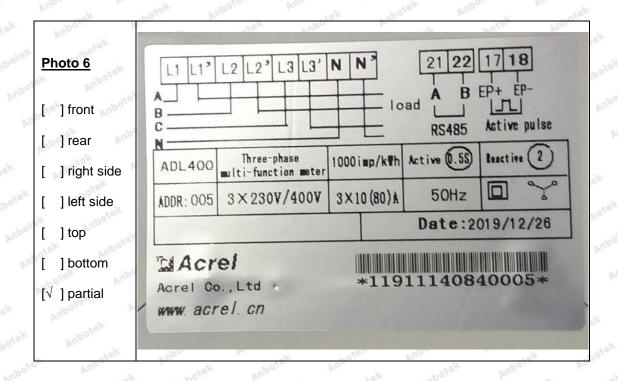










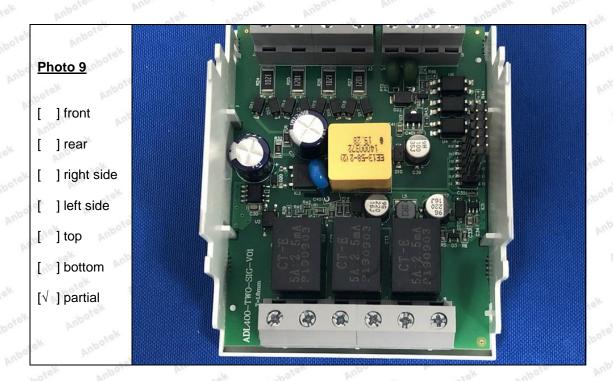


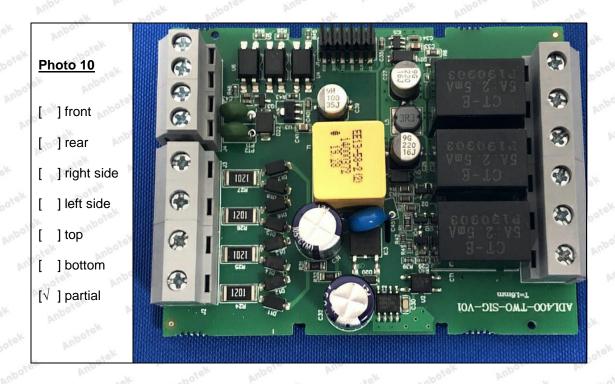
















End of Report